

416 Rec'd PCT/PTO 1 0 MAY 2000

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit :
Examiner :
Serial No. : 09/508,042
Filed : March 3, 2000
PCT No. : PCT/EP98/05793
PCT Filed : September 11, 1998
Inventors : Klaus Pawelzik
 : Klaus-Robert Müller
 : Jens Kohlmorgen
Title : METHOD FOR DETECTING
 : TIME-DEPENDENT MODES
 : OF DYNAMIC SYSTEMS

36th Floor
1600 Market Street
Philadelphia, PA 19103

Docket: 1035-00

Dated: May 10, 2000

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Leslie Hood

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Leslie Hood

(Signature of person mailing paper or fee)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 36th Floor
Examiner : 1600 Market Street
Serial No. : 09/508,042 Philadelphia, PA 19103
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INFORMATION DISCLOSURE STATEMENT

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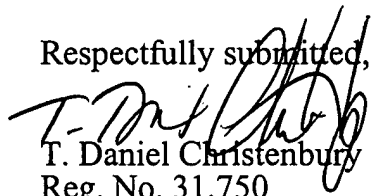
Sir:

We submit herewith the usual Form PTO-1449 together with copies of publications listed therein. They are submitted to comply with the Applicants' duty of disclosure under 37 C.F.R. §1.56 and are believed related to this application.

We are submitting this in the spirit of voluntary disclosure and look forward with interest to the Examiner's action at an early date on the merits of the case.

It is accordingly requested that the Information Disclosure Statement be officially entered in the file of this case and that appropriate notification be made that it was considered in the prosecution of the case.

Respectfully submitted,


T. Daniel Christenbury
Reg. No. 31,750
Attorney for Applicants

TDC:lh
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Form PTO-1449

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1035-00SERIAL NO.
09/508,042LIST OF PRIOR ART CITED BY APPLICANT
(Use several sheets if necessary)APPLICANT
Klaus Pawelzik et al.FILING DATE
March 3, 2000

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL*		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5	3	0	7	4	4	4	04/26/94	Eiichi Tsuboka			
	AB	5	4	1	2	1	6	3	05/02/95	Shintaro Tsuji			
	AC	5	6	5	9	6	6	7	08/19/97	Kevin L. Buescher et al.			
	AD												
	AE												
	AF												
	AG												
	AH												
	AI												
	AJ												
	AK												

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL	WO 90/09644	08/23/90	International			x	
	AM	EP 0 510 632 A2	10/28/92	Europe			x	
	AN	WO 94/20887	09/15/94	International			x	
	AO	WO 95/18420	07/06/95	International			x	
	AP	DE 195 30 646 C1	10/17/96	Germany			Abstract only	

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	John Hertz et al., <u>INTRODUCTION TO THE THEORY OF NEURAL COMPUTATION</u> , Addison-Wesley Publishing Company, 1991, Chapter 9 "Unsupervised Competitive Learning"
	G. Pfurtscheller et al., <u>SLEEP CLASSIFICATION IN INFANTS BASED ON ARTIFICIAL NEURAL NETWORKS</u> , Biomedizinische Technik, Band 37, Heft 6/1992, Pages 122 - 130
AS	Andreas Draeger et al., <u>PRÄDIKTIVE REGELUNG VERFAHRENSTECHNISCHER ANLAGEN MIT NEURONALEN NETZEN</u> , Automatisierungstechnische Praxis 37, 1995, 4, Pages 55 - 61 w/English language summary
	Dietmar Wetzlar, <u>NEURONALE NETZE IN DER MeßTECHNIK</u> , Technisches Messen 62, 1995, 3 w/English language summary
AT	Achim Bothe, <u>NEURONALE KLASSIFIKATOREN IN DER AKUSTISCHEN MUSTERERKENNUNG</u> , Technisches Messen 62, 1995, 3, Pages 88 - 94 w/English language summary
	Stephan Ester, <u>HERZSCHALLANALYSE MIT UNTERSTÜTZUNG ADAPTIVER FILTER UND NEURONALER NETZE</u> , Technisches Messen 62, 1995, 3, Pages 107 - 112 w/English language summary

EXAMINER

DATE CONSIDERED

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	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	D. Popivanov et al., <u>DETECTION OF SUCCESSIVE CHANGES IN DYNAMICS OF EEG TIME SERIES: LINEAR AND NONLINEAR APPROACH</u> , 18 th Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 1996, Pages 1590 - 1591
	J. Pardey et al., <u>A REVIEW OF PARAMETRIC MODELLING TECHNIQUES FOR EEG ANALYSIS</u> , Med. Eng. Phys., Vol. 18, No. 1, Pages 2 - 11, 1996
AS	J. Kohlmorgen, et al., <u>ANALYSIS OF WAKE/SLEEP EEG WITH COMPETING EXPERTS</u> , Pages 1077 - 1082
	N. H. Packard et al., <u>GEOMETRY FROM A TIME SERIES</u> , Physical Review Letters, Vol. 45, No. 9, September 1980, Pages 712 - 716
AT	Lawrence R. Rabiner, Fellow, IEEE, <u>A TUTORIAL ON HIDDEN MARKOV MODELS AND SELECTED APPLICATIONS IN SPEECH RECOGNITION</u> , Readings in Speech Recognition, Eds. Alex Waibel et al., San Mateo, Morgan Kaufmann, 1990, Pages 267 - 296

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							YES	NO
	AL	DE 195 30 647 C1	01/23/97	Germany			Abstract only	
	AM	DE 195 31 967 A1	03/06/97	Germany			Abstract only	
	AN	DE 195 37 010 A1	04/10/97	Germany			Abstract only	
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AR	Dietmar Gerhardt et al., <u>ATEMMUSTER- UND SCHLAFSTADIENERKENNUNG MIT NEURONALEN NETZEN BEI SÄUGLINGEN</u> , Technisches Messen 62, 1995, 3, Pages 113 - 116 w/English language summary
	Christel Wisotzki et al., <u>LERNFÄHIGE KLASSIFIKATION VON ZEITREIHEN</u> , Automatisierungstechnik 43, 1995, 2, Pages 70 - 76 w/English language summary
AS	Stefan Gehlen et al., <u>EINSATZ NEURONALER NETZE ZUR KONTROLLE KOMPLEXER INDUSTRIELLER PROZESSE</u> , Automatisierungstechnik 43, 1995, 2, Pages 85 - 91 w/English language summary
	Harald Peters, <u>ANWENDUNG KÜNSTLICHER NEURONALER NETZE IN ÜBERWACHUNGSSYSTEMEN</u> , Automatisierungstechnische Praxis 38, 1996, 11, Pages 37 - 38, 40 - 42, 44 - 46, 48 w/English language summary
AT	Thomas Martinetz et al., <u>NEURONALE NETZE ZUR STEUERUNG VON WALZSTRÄßEN</u> , Automatisierungstechnische Praxis 38, 1996, 10, Pages 28, 30 - 32, 34 - 36, 41 - 42 w/English language summary
	Klaus Pawelzik et al., <u>ANNEALED COMPETITION OF EXPERTS FOR A SEGMENTATION AND CLASSIFICATION OF SWITCHING DYNAMICS</u> , Neural Computation 8, Pages 340 - 356, 1996

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